

COMBINED DECLARATION AND POWER OF ATTORNEY

As a below-named inventor, I hereby declare that:

This declaration is of the following type:

- ☐ original
- ☐ divisional
- ☐ continuation
- ☒ continuation-in-part

INVENTORSHIP IDENTIFICATION

My residence, post office address, and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first, and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

TITLE OF INVENTION

"ELECTROSTATIC CHUCK HAVING IMPROVED GAS CONDUITS"

SPECIFICATION IDENTIFICATION

The specification of which:

- ☒ was executed and filed on November 6, 1997, Serial No. 08/965,690.
- ☐ is executed and filed on even date herewith via
 - ☐ Express Mail No. _____ (as Serial No. not yet known)
 - and was amended on _____ (if applicable)
- ☐ was described and claimed in PCT International Application No. _____ filed on _____ and as amended under PCT Article 19 on _____ (if any).

ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, § 1.56, and which is material to the examination of this application; namely, information where there is a substantial likelihood that

a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

- ☒ In compliance with this duty there is attached a Supplemental Information Disclosure Statement in accordance with 37 CFR § 1.98.

PRIORITY CLAIM (35 U.S.C. § 119)

I hereby claim foreign priority benefits under Title 35, United States Code, § 119, of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

☒ No such applications have been filed.

☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 months (6 months for design) prior to this application, and any priority claims under 35 U.S.C. § 119:

<u>Country/PCT</u>	<u>Application No.</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
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☐ Yes ☐ No

- B. All foreign application(s), if any, filed more than 12 months (6 months for design) prior to this U.S. application:

Country:

Application No:

Filing date:

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)
UNDER 35 U.S.C. § 120**

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

**PRIOR U.S. APPLICATION(S) FOR WHICH BENEFIT
UNDER 35 U.S.C. § 120 IS CLAIMED**

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>		
		<u>Patented</u>	<u>Pending</u>	<u>Abandoned</u>
08/639,596	April 26, 1996	X		

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I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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Send correspondence to: Direct telephone calls to:

PATENT COUNSEL	Ashok K. Janah
Legal Affairs Department	(415) 538-1555
Applied Materials, Inc.	
P.O. Box 450A	
Santa Clara, California 95052	
FAX: (408) 986-3090	

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of **sole or first** inventor: **WELDON, EDWIN C.**

Inventor's signature: _____ Date: _____
Residence: Los Gatos, California
Post Office Address: 23613 Skyview Terrace
Los Gatos, California 95030

Country of Citizenship: U.S.A.

Full name of **second** inventor: **COLLINS, KENNETH S.**

Inventor's signature: _____ Date: _____
Residence: San Jose, California
Post Office Address: 165 Knightshaven Way
San Jose, California 95111

Country of Citizenship: U.S.A.

Full name of **third** inventor: **DONDE, ARIK**

Inventor's signature: _____ Date: 3/25/98
Residence: Cupertino, California
Post Office Address: 733 Stendhall Lane
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of **fourth** inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____
Residence: Mountain View, California
Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

Inventor's signature: _____ Date: _____

Residence: Los Altos Hills, California

Post Office Address: 12000 Murietta Lane
Los Altos Hills, California 94022

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: **STEGER, ROBERT J.**

Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 22293 Bahl Street
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of **seventh** inventor: **DYER, TIMOTHY**

Inventor's signature: _____ Date: _____

Residence: Tempe, Arizona

Post Office Address: 167 West Jeanine Drive
Tempe, Arizona 85284

Country of Citizenship: U.S.A.

Full name of **eighth** inventor: **KUMAR, ANANDA H.**

Inventor's signature: _____ Date: _____

Residence: Milpitas, California

Post Office Address: 1296 Knollview Drive
Milpitas, California 95035

Country of Citizenship: U.S.A.

Full name of **ninth** inventor: **VEYTSER, ALEXANDER M.**

Inventor's signature: _____ Date: _____

Residence: Mountain View, California

Post Office Address: 1429 Lloyd Way
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **tenth** inventor: **NARENDRNATH, KADTHALA R.**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 3686 Slope View Drive
San Jose, California 95148

Country of Citizenship: India

Full name of **eleventh** inventor: **KATS, SEMYON L.**

Inventor's signature: _____ Date: _____

Residence: San Francisco, California

Post Office Address: 810 Gonzalez Drive
San Francisco, California 94132

Country of Citizenship: U.S.A.

Full name of **twelfth** inventor: **KHOLODENKO, ARNOLD**

Inventor's signature: _____ Date: _____

Residence: San Francisco, California

Post Office Address: 1747 Eucalyptus Drive
San Francisco, California 94132

Country of Citizenship: U.S.A.

Full name of **thirteenth** inventor: **SHAMOULIAN, SHAMOUIL**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 6536 Little Falls Drive
San Jose, California 95120

Country of Citizenship: U.S.A.

Full name of **fourteenth** inventor: **GRIMARD, DENNIS S.**

Inventor's signature: _____ Date: _____

Residence: Ann Arbor, Michigan

Post Office Address: 511 Liberty Pointe
Ann Arbor, Michigan 48103

Country of Citizenship: U.S.A.

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<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>		
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Full name of sole or first inventor: **WELDON, EDWIN C.**

Inventor's signature:  Date: April 3, 1998
Residence: Los Gatos, California
Post Office Address: 23613 Skyview Terrace
Los Gatos, California 95030

Country of Citizenship: U.S.A.

Full name of second inventor: **COLLINS, KENNETH S.**

Inventor's signature:  Date: 4-9-98
Residence: San Jose, California
Post Office Address: 165 Knightshaven Way
San Jose, California 95111

Country of Citizenship: U.S.A.

Full name of third inventor: **DONDE, ARIK**

Inventor's signature: _____ Date: _____
Residence: Cupertino, California
Post Office Address: 733 Stendhall Lane
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of fourth inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____
Residence: Mountain View, California
Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

Inventor's signature: _____ Date: _____

Residence: Los Altos Hills, California

Post Office Address: 12000 Murietta Lane
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Country of Citizenship: U.S.A.

Full name of **sixth** inventor: **STEGER, ROBERT J.**

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Country of Citizenship: U.S.A.

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Ann Arbor, Michigan 48103

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Residence: Los Gatos, California
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Country of Citizenship: U.S.A.

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Residence: San Jose, California
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Country of Citizenship: U.S.A.

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Inventor's signature: _____ Date: _____
Residence: Cupertino, California
Post Office Address: 733 Stendhall Lane
Cupertino, California 95014
Country of Citizenship: U.S.A.

Full name of **fourth** inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____
Residence: Mountain View, California
Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040
Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

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Residence: Los Altos Hills, California

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- ☒ No such applications have been filed.

- ☐ Such applications have been filed as follows:

- A. Prior foreign/PCT application(s) filed within 12 months (6 months for design) prior to this application, and any priority claims under 35 U.S.C. § 119:**

<u>Country/PCT</u>	<u>Application No.</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
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☐ Yes ☐ No

- B. All foreign application(s), if any, filed more than 12 months (6 months for design) prior to this U.S. application:**

Country:

Application No:

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**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S)
UNDER 35 U.S.C. § 120**

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

**PRIOR U.S. APPLICATION(S) FOR WHICH BENEFIT
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<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>		
		<u>Patented</u>	<u>Pending</u>	<u>Abandoned</u>
08/639,596	April 26, 1996	X		

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

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Send correspondence to: Direct telephone calls to:

PATENT COUNSEL
Legal Affairs Department
Applied Materials, Inc.
P.O. Box 450A
Santa Clara, California 95052
FAX: (408) 986-3090

Ashok K. Janah
(415) 538-1555

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

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Inventor's signature: _____ Date: _____

Residence: Los Gatos, California

Post Office Address: 23613 Skyview Terrace
Los Gatos, California 95030

Country of Citizenship: U.S.A.

Full name of second inventor: **COLLINS, KENNETH S.**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 165 Knightshaven Way
San Jose, California 95111

Country of Citizenship: U.S.A.

Full name of third inventor: **DONDE, ARIK**

Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 733 Stendhall Lane
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of fourth inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____

Residence: Mountain View, California

Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

Inventor's signature: _____ Date: _____

Residence: Los Altos Hills, California

Post Office Address: 12000 Murietta Lane
Los Altos Hills, California 94022

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: **STEGER, ROBERT J.**

Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 22293 Bahl Street
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of **seventh** inventor: **DYER, TIMOTHY**

Inventor's signature: _____ Date: _____

Residence: Tempe, Arizona

Post Office Address: 167 West Jeanine Drive
Tempe, Arizona 85284

Country of Citizenship: U.S.A.

Full name of **eighth** inventor: **KUMAR, ANANDA H.**

Inventor's signature:  _____ Date: 3/23/93

Residence: Milpitas, California

Post Office Address: 1296 Knollview Drive
Milpitas, California 95035

Country of Citizenship: U.S.A.

Full name of **ninth** inventor: **VEYTSEY, ALEXANDER M.**

Inventor's signature:  _____ Date: 3/24/93

Residence: Mountain View, California

Post Office Address: 1429 Lloyd Way
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **tenth** inventor: **NARENDRNATH, KADTHALA R.**

Inventor's signature:  Date: 3.24.98

Residence: San Jose, California

Post Office Address: 3686 Slope View Drive
San Jose, California 95148

Country of Citizenship: India

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Post Office Address: 810 Gonzalez Drive
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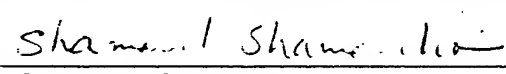
Inventor's signature:  Date: 3/25/98

Residence: San Francisco, California

Post Office Address: 1747 Eucalyptus Drive
San Francisco, California 94132

Country of Citizenship: U.S.A.

Full name of **thirteenth** inventor: **SHAMOUILIAN, SHAMOUIL**

Inventor's signature:  Date: 3/27/98

Residence: San Jose, California

Post Office Address: 6536 Little Falls Drive
San Jose, California 95120

Country of Citizenship: U.S.A.

Full name of **fourteenth** inventor: **GRIMARD, DENNIS S.**

Inventor's signature:  Date: 4/2/98

Residence: Ann Arbor, Michigan

Post Office Address: 511 Liberty Pointe
Ann Arbor, Michigan 48103

Country of Citizenship: U.S.A.

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Residence: Los Gatos, California

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Country of Citizenship: U.S.A.

Full name of **second** inventor: **COLLINS, KENNETH S.**

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Post Office Address: 165 Knightshaven Way
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Country of Citizenship: U.S.A.

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Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 733 Stendhall Lane
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Country of Citizenship: U.S.A.

Full name of **fourth** inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____

Residence: Mountain View, California

Post Office Address: 1027 Mountain View Avenue
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Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

Inventor's signature: Dan Maydan Date: 5/1/95

Residence: Los Altos Hills, California

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Country of Citizenship: U.S.A.

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Inventor's signature: _____ Date: _____

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Ann Arbor, Michigan 48103

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- ☐ divisional
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☐ Yes ☐ No

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Country of Citizenship: U.S.A.

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Post Office Address: 165 Knightshaven Way
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Country of Citizenship: U.S.A.

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Post Office Address: 733 Stendhall Lane
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of **fourth** inventor: **LUE, BRIAN**

Inventor's signature: Brian Lue Date: 5/20/98

Residence: Mountain View, California

Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040

Country of Citizenship: U.S.A.

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Filing date:

CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. § 120

I hereby claim the benefit under Title 35, United States Code, § 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

**PRIOR U.S. APPLICATION(S) FOR WHICH BENEFIT
UNDER 35 U.S.C. § 120 IS CLAIMED**

<u>Serial No.</u>	<u>Filing Date</u>	<u>Status</u>		
		<u>Patented</u>	<u>Pending</u>	<u>Abandoned</u>
08/639,596	April 26, 1996	X		

POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Michael L. Sherrard	Registration No. 28,041
Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Leslie A. Weise	Registration No. 36,305
Robert W. Mulcahy	Registration No. 25,436
Ashok K. Janah	Registration No. 37,487

Send correspondence to:

Direct telephone calls to:

PATENT COUNSEL
Legal Affairs Department
Applied Materials, Inc.
P.O. Box 450A
Santa Clara, California 95052
FAX: (408) 986-3090

Ashok K. Janah
(415) 538-1555

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of sole or first inventor: **WELDON, EDWIN C.**

Inventor's signature: _____ Date: _____

Residence: Los Gatos, California

Post Office Address: 23613 Skyview Terrace
Los Gatos, California 95030

Country of Citizenship: U.S.A.

Full name of second inventor: **COLLINS, KENNETH S.**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 165 Knightshaven Way
San Jose, California 95111

Country of Citizenship: U.S.A.

Full name of third inventor: **DONDE, ARIK**

Inventor's signature: _____ Date: _____

Residence: Cupertino, California

Post Office Address: 733 Stendhall Lane
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of fourth inventor: **LUE, BRIAN**

Inventor's signature: _____ Date: _____

Residence: Mountain View, California

Post Office Address: 1027 Mountain View Avenue
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **fifth** inventor: **MAYDAN, DAN**

Inventor's signature: _____ Date: _____

Residence: Los Altos Hills, California

Post Office Address: 12000 Murietta Lane
Los Altos Hills, California 94022

Country of Citizenship: U.S.A.

Full name of **sixth** inventor: **STEGER, ROBERT J.**

Inventor's signature:  Date: 4/8/98

Residence: Cupertino, California

Post Office Address: 22293 Bahl Street
Cupertino, California 95014

Country of Citizenship: U.S.A.

Full name of **seventh** inventor: **DYER, TIMOTHY**

Inventor's signature: _____ Date: _____

Residence: Tempe, Arizona

Post Office Address: 167 West Jeanine Drive
Tempe, Arizona 85284

Country of Citizenship: U.S.A.

Full name of **eighth** inventor: **KUMAR, ANANDA H.**

Inventor's signature: _____ Date: _____

Residence: Milpitas, California

Post Office Address: 1296 Knollview Drive
Milpitas, California 95035

Country of Citizenship: U.S.A.

Full name of **ninth** inventor: **VEYTSEY, ALEXANDER M.**

Inventor's signature: _____ Date: _____

Residence: Mountain View, California

Post Office Address: 1429 Lloyd Way
Mountain View, California 94040

Country of Citizenship: U.S.A.

Full name of **tenth** inventor: **NARENDRNATH, KADTHALA R.**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 3686 Slope View Drive
San Jose, California 95148

Country of Citizenship: India

Full name of **eleventh** inventor: **KATS, SEMYON L.**

Inventor's signature: _____ Date: _____

Residence: San Francisco, California

Post Office Address: 810 Gonzalez Drive
San Francisco, California 94132

Country of Citizenship: U.S.A.

Full name of **twelfth** inventor: **KHOLODENKO, ARNOLD**

Inventor's signature: _____ Date: _____

Residence: San Francisco, California

Post Office Address: 1747 Eucalyptus Drive
San Francisco, California 94132

Country of Citizenship: U.S.A.

Full name of **thirteenth** inventor: **SHAMOULIAN, SHAMOUIL**

Inventor's signature: _____ Date: _____

Residence: San Jose, California

Post Office Address: 6536 Little Falls Drive
San Jose, California 95120

Country of Citizenship: U.S.A.

Full name of **fourteenth** inventor: **GRIMARD, DENNIS S.**

Inventor's signature: _____ Date: _____

Residence: Ann Arbor, Michigan

Post Office Address: 511 Liberty Pointe
Ann Arbor, Michigan 48103

Country of Citizenship: U.S.A.

(Declaration ends with this page)

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- | | |
|--|--|
| 1) Edwin C. Weldon
23613 Skyview Terrace
Los Gatos, California 95030 | 8) Ananda H. Kumar
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(hereinafter referred to as Assignors), have invented a certain invention entitled:

"ELECTROSTATIC CHUCK HAVING IMPROVED GAS CONDUITS"

for which application for Letters Patent in the United States was filed on **November 6, 1997**, under Serial No. **08/965,690**; and

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3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives, and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) _____, 1998

Edwin C. Weldon

2) _____, 1998

Kenneth S. Collins

3) _____, 1998

Arik Donde

4) _____, 1998

Brian Lue

5) _____, 1998

Dan Maydan

6) _____, 1998

Robert J. Steger

7) _____, 1998

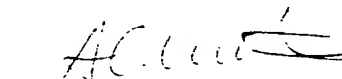
Timothy Dyer

8) 3/23/, 1998



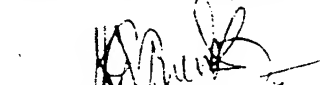
Ananda H. Kumar

9) 3/21/98, 1998



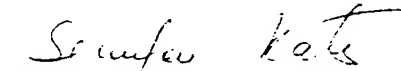
Alexander M. Veytser

10) 3/24/, 1998



Kadthara R. Narendrnath

11) 3/24, 1998



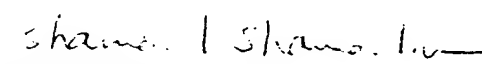
Semyon L. Kats

12) 3/25, 1998



Arnold Kholodenko

13) 3/21, 1998



Shamouil Shamouilian

14) 4/2, 1998



Dennis S. Grimard

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- | | |
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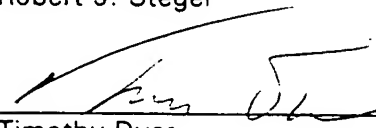
5) _____, 1998

Dan Maydan

6) _____, 1998

Robert J. Steger

7) April 1,, 1998



Timothy Dyer

8) _____, 1998

Ananda H. Kumar

9) _____, 1998

Alexander M. Veytser

10) _____, 1998

Kadthala R. Narendrnath

11) _____, 1998

Semyon L. Kats

12) _____, 1998

Arnold Kholodenko

13) _____, 1998

Shamouil Shamouilian

14) _____, 1998

Dennis S. Grimard

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- | | |
|--|--|
| 1) Edwin C. Weldon
23613 Skyview Terrace
Los Gatos, California 95030 | 8) Ananda H. Kumar
1296 Knollview Drive
Milpitas, California 95035 |
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165 Knightshaven Way
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forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

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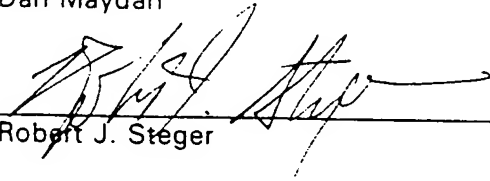
4) _____, 1998

Brian Lue

5) _____, 1998

Dan Maydan

6) April 8, 1998



Robert J. Steger

7) _____, 1998

Timothy Dyer

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Arnold Kholodenko

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Dennis S. Grimard

ASSIGNMENT FOR APPLICATION FOR PATENT

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Names and Addresses of Inventors:

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22293 Bahl Street
Cupertino, California 95014 | 13) Shamouil Shamouilian
6536 Little Falls Drive
San Jose, California 95120 |
| 7) Timothy Dyer
167 West Jeanine Drive
Tempe, Arizona 85284 | 14) Dennis S. Grimard
511 Liberty Pointe
Ann Arbor, Michigan 48103 |

(hereinafter referred to as Assignors), have invented a certain invention entitled:

"ELECTROSTATIC CHUCK HAVING IMPROVED GAS CONDUITS"

for which application for Letters Patent in the United States was filed on **November 6, 1997**, under Serial No. **08/965,690**; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title, and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates, and other

forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer, and convey to Assignee the full and exclusive right, title, and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title, and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title, and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions, and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives, and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) _____, 1998

Edwin C. Weldon

2) _____, 1998

Kenneth S. Collins

3) _____, 1998

Arik Donde

4) 5/20, 1998

Brian Lue
Brian Lue

5) _____, 1998

Dan Maydan

6) _____, 1998

Robert J. Steger

7) _____, 1998

Timothy Dyer

8) _____, 1998

Ananda H. Kumar

9) _____, 1998

Alexander M. Veytser

10) _____, 1998

Kadthala R. Narendrnath

11) _____, 1998

Semyon L. Kats

12) _____, 1998

Arnold Kholodenko

13) _____, 1998

Shamouil Shamouilian

14) _____, 1998

Dennis S. Grimard

ASSIGNMENT FOR APPLICATION FOR PATENT

WHEREAS:

Names and Addresses of Inventors:

- | | |
|--|--|
| 1) Edwin C. Weldon
23613 Skyview Terrace
Los Gatos, California 95030 | 8) Ananda H. Kumar
1296 Knollview Drive
Milpitas, California 95035 |
| 2) Kenneth S. Collins
165 Knightshaven Way
San Jose, California 95111 | 9) Alexander M. Veytser
1429 Lloyd Way
Mountain View, California 94040 |
| 3) Arik Donde
733 Stendhall Lane
Cupertino, California 95014 | 10) Kadthala R. Narendrnath
3686 Slope View Drive
San Jose, California 95148 |
| 4) Brian Lue
1027 Mountain View Avenue
Mountain View, California 94040 | 11) Semyon L. Kats
810 Gonzalez Drive
San Francisco, California 94132 |
| 5) Dan Maydan
12000 Murietta Lane
Los Altos Hills, California 94022 | 12) Arnold Kholodenko
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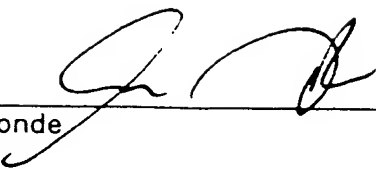
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1) _____, 1998

Edwin C. Weldon

2) _____, 1998

Kenneth S. Collins

3)	<u>3/25</u>	, 1998	<u></u> Arik Donde
4)	_____	, 1998	_____ Brian Lue
5)	_____	, 1998	_____ Dan Maydan
6)	_____	, 1998	_____ Robert J. Steger
7)	_____	, 1998	_____ Timothy Dyer
8)	_____	, 1998	_____ Ananda H. Kumar
9)	_____	, 1998	_____ Alexander M. Veytser
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11)	_____	, 1998	_____ Semyon L. Kats
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Names and Addresses of Inventors:

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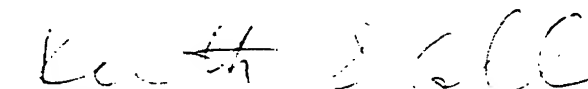
IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1) April 3, 1998



Edwin C. Weldon

2) 4-9, 1998



Kenneth S. Collins

3) _____, 1998

Arik Donde

4) _____, 1998

Brian Lue

5) _____, 1998

Dan Maydan

6) _____, 1998

Robert J. Steger

7) _____, 1998

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